

API Bank Specification Document - Banking system

Version: 3.1.0

Base URL: <https://www.openbankproject.com/solutions/sandbox/>

MANDATORY TO PUT IN HEADER

Authentication Direct Login:

POST /my/logins/direct HTTP/1.1

Host: api.openbankproject.com

Accept: application/json

Authorization: DirectLogin username="username", password="password",
consumer_key="yourConsumerKey"

Verify Authentication:

POST /obp/v3.1.0/users/current HTTP/1.1

Host: YOUR-HOST

Accept: application/json

Authorization: DirectLogin token="abc123"

USER MANAGEMENT ENDPOINTS

1. Create User

POST /users

2. Get Current User Info

GET /users/current

ACCOUNT USER API

Resources:

1. Account

- Create Account

PUT /banks/{BANK_ID}/accounts/{ACCOUNT_ID}

Request sample:

```
{  
  "account_routing": {  
    "scheme": "AccountNumber",  
    "address": "4930396"  
  },  
}
```

```
"branch_id": "1234",
"label": "Label",
"balance": {
  "currency": "EUR",
  "amount": "10"
},
"user_id": "9ca9a7e4-6d02-40e3-a129-0b2bf89de9b1",
"type": "CURRENT"
}
```

2. Users

- Create User

POST/users

Request sample:

```
{
  "first_name": "String",
  "email": "String",
  "username": "String",
  "last_name": "String",
  "password": "String"
}
```

Response sample:

```
{
  "provider": "OBP",
  "email": "eveline@example.com",
  "username": "robert.x.0.gh",
  "provider_id": "OBP",
  "user_id": "9ca9a7e4-6d02-40e3-a129-0b2bf89de9b1",
  "entitlements": {
    "list": [
      {
        "entitlement_id": "6fb17583-1e49-4435-bb74-a14fe0996723",
        "role_name": "CanQueryOtherUser",
        "bank_id": "GENODEM1GLS"
      }
    ]
  }
}
```

3. User Info

- Get user information

GET/users/current

Response sample: {

```
{
  "provider": "OBP",
```

```

"email": "eveline@example.com",
"username": "robert.x.0.gh",
"provider_id": "OBP",
"user_id": "9ca9a7e4-6d02-40e3-a129-0b2bf89de9b1",
"entitlements": {
  "list": [
    {
      "entitlement_id": "6fb17583-1e49-4435-bb74-a14fe0996723",
      "role_name": "CanQueryOtherUser",
      "bank_id": "GENODEM1GLS"
    }
  ]
}
}

```

4. Create a Bank Account

- Creates a new bank account for the user

PUT/banks/{BANK_ID}/accounts/{ACCOUNT_ID}

Request sample:

```

{
  "account_routing": {
    "scheme": "AccountNumber",
    "address": "4930396"
  },
  "branch_id": "1234",
  "label": "Label",
  "balance": {
    "currency": "EUR",
    "amount": "10"
  },
  "user_id": "9ca9a7e4-6d02-40e3-a129-0b2bf89de9b1",
  "type": "CURRENT"
}

```

Response sample:

```

{
  "account_routing": {
    "scheme": "AccountNumber",
    "address": "4930396"
  },
  "account_attributes": [
    {
      "name": "OVERDRAFT_START_DATE",
      "account_attribute_id": "613c83ea-80f9-4560-8404-b9cd4ec42a7f",
      "product_code": "saving1",

```

```

    "type": "DATE_WITH_DAY",
    "value": "2012-04-23"
  }
],
"branch_id": "DERBY6",
"label": "My Account",
"balance": {
  "currency": "EUR",
  "amount": "10"
},
"user_id": "9ca9a7e4-6d02-40e3-a129-0b2bf89de9b1",
"type": "AC"
}

```

5. View User Account

- Lists accounts accessible to the current user

GET/banks/my/accounts

Response sample:

```

{
  "accounts": [
    {
      "id": "efc6cdea-6b4e-4b3b-a53a-3f3d9a12f58b",
      "label": "My Main Account",
      "bank_id": "rbs",
      "account_routings": [
        {
          "scheme": "OBP",
          "address": "efc6cdea-6b4e-4b3b-a53a-3f3d9a12f58b"
        }
      ],
      "views_available": [
        {
          "id": "owner",
          "short_name": "Owner View",
          "is_public": false
        }
      ],
      "bank_routings": [
        {
          "scheme": "OBP",
          "address": "rbs"
        }
      ]
    }
  ]
}

```

6. Get account transaction (Full)

- Return transaction list of the account

GET/banks/{BANK_ID}/accounts/{ACCOUNT_ID}/{VIEW_ID}/transactions

Response sample:

```
{
  "transactions": [
    {
      "this_account": {
        "id": "String",
        "bank_routing": {
          "scheme": "Bank_ID",
          "address": "gh.29.uk"
        },
        "account_routings": [
          {
            "scheme": "AccountNumber",
            "address": "4930396"
          }
        ],
        "holders": [
          {
            "name": "OBP",
            "is_alias": "true"
          }
        ]
      },
      "id": "String",
      "details": {
        "new_balance": {
          "currency": "EUR",
          "amount": "10"
        },
        "description": "this is for family",
        "completed": "Tue Sep 19 00:00:00 UTC 2017",
        "type": "AC",
        "value": {
          "currency": "EUR",
          "amount": "10"
        },
        "posted": "Tue Sep 19 00:00:00 UTC 2017"
      },
      "metadata": {
        "narrative": "NONE",
        "tags": [
          {
```

```
    "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
    "value": "OBP",
    "date": "Tue Sep 19 00:00:00 UTC 2017",
    "user": {
      "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
      "provider": "OBP",
      "display_name": "OBP"
    }
  },
  "where": {
    "latitude": "1.231",
    "longitude": "1.231",
    "date": "Tue Sep 19 00:00:00 UTC 2017",
    "user": {
      "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
      "provider": "OBP",
      "display_name": "OBP"
    }
  },
  "images": [
    {
      "URL": "www.openbankproject.com",
      "label": "NONE",
      "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
      "date": "Tue Sep 19 00:00:00 UTC 2017",
      "user": {
        "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
        "provider": "OBP",
        "display_name": "OBP"
      }
    }
  ],
  "comments": [
    {
      "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
      "value": "OBP",
      "date": "Tue Sep 19 00:00:00 UTC 2017",
      "user": {
        "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
        "provider": "OBP",
        "display_name": "OBP"
      }
    }
  ],
  "other_account": {
```

```
"account_routings": [
  {
    "scheme": "AccountNumber",
    "address": "4930396"
  }
],
"holder": {
  "name": "OBP",
  "is_alias": "true"
},
"id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
"metadata": {
  "public_alias": "NONE",
  "image_URL": "www.openbankproject.com",
  "physical_location": {
    "latitude": "1.231",
    "longitude": "1.231",
    "date": "Tue Sep 19 00:00:00 UTC 2017",
    "user": {
      "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
      "provider": "OBP",
      "display_name": "OBP"
    }
  },
  "private_alias": "NONE",
  "URL": "www.openbankproject.com",
  "more_info": "www.openbankproject.com",
  "corporate_location": {
    "latitude": "1.231",
    "longitude": "1.231",
    "date": "Tue Sep 19 00:00:00 UTC 2017",
    "user": {
      "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
      "provider": "OBP",
      "display_name": "OBP"
    }
  },
  "open_corporates_URL": "www.openbankproject.com"
},
"bank_routing": {
  "scheme": "Bank_ID",
  "address": "gh.29.uk"
}
}
]
```

7. Transaction Request

Deposit Amount

POST/banks/{BANK_ID}/accounts/ACCOUNT_ID/{VIEW_ID}/transaction-requests

Response sample:

```
{
  "to": {
    "bank_id": "bank-x-gh",
    "account_id": "account-y-gh"
  },
  "value": {
    "currency": "PHP",
    "amount": "1000.00"
  },
  "description": "Deposit to account"
}
```

8. Transaction Request

Withdraw Amount

POST/banks/{BANK_ID}/accounts/ACCOUNT_ID/owner/transaction-request-types/{transaction_request_type}/transaction-requests

Response sample:

```
{
  "to": {
    "bank_id": "bank-x-gh",
    "account_id": "account-z-gh"
  },
  "value": {
    "currency": "PHP",
    "amount": "500.00"
  },
  "description": "Withdrawal from account"
}
```

9. Update Account

Update Account

PUT/banks/{BANK_ID}/accounts/{ACCOUNT_ID}/products/PRODUCT_CODE/attributes/ACCOUNT_ATTRIBUTE_ID

Request sample:

```
{
  "name": "OVERDRAFT_START_DATE",
  "type": "DATE_WITH_DAY",
  "value": "2012-04-23"
}
```



```
}
```

Response sample:

```
{
  "name": "OVERDRAFT_START_DATE",
  "account_attribute_id": "613c83ea-80f9-4560-8404-b9cd4ec42a7f",
  "product_code": "saving1",
  "type": "DATE_WITH_DAY",
  "value": "2012-04-23"
}
```

ACCOUNT TELLER API

1. Get All Bank Accounts

- Return the list of accounts in containing private views of the user
GET/my/accounts

Response samples:

```
{
  "accounts": [
    {
      "account_routings": [
        {
          "scheme": "AccountNumber",
          "address": "4930396"
        }
      ],
      "label": "String",
      "account_type": "330",
      "bank_id": "GENODEM1GLS",
      "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
      "views": [
        {
          "id": "owner",
          "short_name": "Owner",
          "description": "This view is for the owner for the account.",
          "is_public": "false"
        }
      ]
    }
  ]
}
```

2. Access Individual Account

- Information return specified in account ID

GET/banks/{BANK_ID}/accounts/{ACCOUNT_ID}/views/{VIEW_ID}/account

Response sample:

```
{
  "id": "9876abcd-1234-4567-89ab-654321abcdef",
  "label": "Student Savings",
  "bank_id": "rbs",
  "number": "11223344",
  "owners": [
    {
      "id": "user-123",
      "display_name": "Chai T."
    }
  ],
  "type": "SAVINGS",
  "balance": {
    "currency": "PHP",
    "amount": "2500.00"
  },
  "IBAN": "GB33BUKB20201555555555",
  "swift_bic": "BUKBGB22",
  "account_routings": [
    {
      "scheme": "OBP",
      "address": "9876abcd-1234-4567-89ab-654321abcdef"
    }
  ],
  "views_available": [
    {
      "id": "owner",
      "short_name": "Owner View",
      "is_public": false
    }
  ],
  "branch_id": "central",
  "account_attributes": []
}
```

3. Get account transaction (Full)

- Return transaction list of the account

GET/banks/{BANK_ID}/accounts/{ACCOUNT_ID}/{VIEW_ID}/transactions

Response sample:

```
{
  "transactions": [
    {
      "this_account": {
```

```
"id": "String",
"bank_routing": {
  "scheme": "Bank_ID",
  "address": "gh.29.uk"
},
"account_routings": [
  {
    "scheme": "AccountNumber",
    "address": "4930396"
  }
],
"holders": [
  {
    "name": "OBP",
    "is_alias": "true"
  }
]
},
"id": "String",
"details": {
  "new_balance": {
    "currency": "EUR",
    "amount": "10"
  },
  "description": "this is for family",
  "completed": "Tue Sep 19 00:00:00 UTC 2017",
  "type": "AC",
  "value": {
    "currency": "EUR",
    "amount": "10"
  },
  "posted": "Tue Sep 19 00:00:00 UTC 2017"
},
"metadata": {
  "narrative": "NONE",
  "tags": [
    {
      "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
      "value": "OBP",
      "date": "Tue Sep 19 00:00:00 UTC 2017",
      "user": {
        "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
        "provider": "OBP",
        "display_name": "OBP"
      }
    }
  ]
},
```

```
"where": {
  "latitude": "1.231",
  "longitude": "1.231",
  "date": "Tue Sep 19 00:00:00 UTC 2017",
  "user": {
    "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
    "provider": "OBP",
    "display_name": "OBP"
  }
},
"images": [
  {
    "URL": "www.openbankproject.com",
    "label": "NONE",
    "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
    "date": "Tue Sep 19 00:00:00 UTC 2017",
    "user": {
      "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
      "provider": "OBP",
      "display_name": "OBP"
    }
  }
],
"comments": [
  {
    "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
    "value": "OBP",
    "date": "Tue Sep 19 00:00:00 UTC 2017",
    "user": {
      "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
      "provider": "OBP",
      "display_name": "OBP"
    }
  }
]
},
"other_account": {
  "account_routings": [
    {
      "scheme": "AccountNumber",
      "address": "4930396"
    }
  ],
  "holder": {
    "name": "OBP",
    "is_alias": "true"
  },
}
```

```

    "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
    "metadata": {
      "public_alias": "NONE",
      "image_URL": "www.openbankproject.com",
      "physical_location": {
        "latitude": "1.231",
        "longitude": "1.231",
        "date": "Tue Sep 19 00:00:00 UTC 2017",
        "user": {
          "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
          "provider": "OBP",
          "display_name": "OBP"
        }
      },
      "private_alias": "NONE",
      "URL": "www.openbankproject.com",
      "more_info": "www.openbankproject.com",
      "corporate_location": {
        "latitude": "1.231",
        "longitude": "1.231",
        "date": "Tue Sep 19 00:00:00 UTC 2017",
        "user": {
          "id": "5995d6a2-01b3-423c-a173-5481df49bdaf",
          "provider": "OBP",
          "display_name": "OBP"
        }
      },
      "open_corporates_URL": "www.openbankproject.com"
    },
    "bank_routing": {
      "scheme": "Bank_ID",
      "address": "gh.29.uk"
    }
  }
]
}

```

4. Transaction Request

Deposit Amount

POST/banks/{BANK_ID}/accounts/ACCOUNT_ID/{VIEW_ID}/transaction-requests

Response sample:

```

{
  "to": {
    "bank_id": "bank-x-gh",
    "account_id": "account-y-gh"
  },

```

```
"value": {
  "currency": "PHP",
  "amount": "1000.00"
},
"description": "Deposit to account"
}
```

5. Transaction Request

Withdraw Amount

POST /banks/{BANK_ID}/accounts/ACCOUNT_ID/owner/transaction-request-types/{transaction_request_type}/transaction-requests

Response sample:

```
{
  "to": {
    "bank_id": "bank-x-gh",
    "account_id": "account-z-gh"
  },
  "value": {
    "currency": "PHP",
    "amount": "500.00"
  },
  "description": "Withdrawal from account"
}
```

6. Close Account

Close the specified bank account

DELETE /banks/{BANK_ID}/accounts/{ACCOUNT_ID}/close

Request sample:

```
{
  "closing_reason": "Customer request",
  "callback_url": "https://example.com/account-closed-callback"
}
```

Response sample:

```
{
  "id": "9876abcd-1234-4567-89ab-654321abcdef",
  "label": "Student Savings",
  "bank_id": "rbs",
  "status": "CLOSED",
  "closed_at": "Thu May 01 14:32:10 UTC 2025",
  "closing_reason": "Customer request",
  "message": "Account successfully closed"
}
```

RESOURCES:

APIS: <https://open-bank-project.readthedocs.io/en/latest/api.html#operation/OBPv3.0.0-getTransactionsForBankAccount>

BASE URL: <https://www.openbankproject.com/solutions/sandbox/>